

What is Claimed is:

103
McElene et al

1. A multi-picture frame, comprising:

12 (translucent)
13, 14

a picture panel having a front transparent surface;

¹⁰
a casing having a receiving chamber mounted at a back of said picture panel;

5 at least a picture ⁽¹¹⁾film rotatably supported in said casing and adapted for being
view from said front transparent surface of said picture panel wherein said picture film
has a plurality of transparent ^(10A)areas provided thereon adapted for enabling a light passing
therethrough

^{30 (30)}
a light source disposed in said receiving chamber of said casing; and

10 a moving picture ⁴⁰frame ^{20, 21, 22, 23}mounted between said picture panel and said light
source, comprising a rolling device ^{33, 34, 35}rotatably supported in said casing and a ⁴¹shader slide ⁴²arranged
to be rotatably driven by said rolling device in a vertical movable manner
wherein a plurality of shading bands having transparent abilities are vertically and
spacedly formed on said shader slide for providing a vertical moving image when a light
15 is passing through said shader slide;

 an auxiliary ⁶⁰moving picture frame, supported between said picture panel and
said light source, comprising an auxiliary rolling device rotatably supported in said
casing and an auxiliary shader slide arranged to be rotatably driven by said auxiliary
rolling device in a movable manner wherein a plurality of shading stripes having a
20 transparent abilities are spacedly formed on said auxiliary shader slide for providing a
moving image when said light is passing through said auxiliary shader slide, and

⁵⁰
an electric input electrically connected said light source and said moving picture
frame to a power source respectively;

 thereby, said light generated by said light source is adapted for passing to said
25 picture film through said shading bands and said shading stripes so as to reflect said
moving images on said picture film.

2. A multi-picture frame, as recited in claim 1, wherein said auxiliary moving picture frame further comprises a shader film supported in front of the auxiliary shader slide wherein a plurality of shading steaks having transparent abilities are inclinedly and spacedly formed on the shader film for providing a transversely moving image on the picture film when the light is passing through said shading stripes longitudinally provided on said auxiliary shader slide and said shading steaks of said shader film respectively.

3. A multi-picture frame, as recited in claim 2, wherein said rolling device comprises a first roller gear and a second roller gear in parallel manner rotatably and horizontally mounted in said casing respectively wherein said shader slide is rotatably connected between said first and second roller gears in an endless rotating manner, and wherein said auxiliary rolling device comprises a first auxiliary roller gear and a second auxiliary roller gear in parallel manner positioned parallel to said first and second roller gears of said moving picture frame wherein said auxiliary shader slide is rotatably connected between said first and second auxiliary roller gears in an endless rotating manner, wherein said first auxiliary roller gear is rotatably engaged with said second roller gear in such a manner that said driving gear drives said second roller gear of said moving picture frame and said first auxiliary roller gear to rotate at said same time.

4. A multi-picture frame, as recited in claim 3, wherein said electric input comprises a motor supported in said receiving chamber for driving an output axle rotate, a driving gear connected to said output axle which drives said second roller gear to rotate, and an electric cable for electrically connected to said light source and a motor respectively electrically extended to said power source.

5. A multi-picture frame, as recited in claim 4, wherein said picture panel further comprises a film tension adjusting unit for maintaining a tension of said picture film wherein said film tension adjusting unit comprises a pair of adjusting shafts rotatably affixed to two opposed edge portions of said picture film respectively wherein a free end of said each adjusting shaft is penetrated through said casing to outside, and a pair of operating buttons affixed to said two free ends of said adjusting shafts respectively and arranged to rotatably move said picture film through said adjusting shafts.

6. A multi-picture frame, as recited in claim 5, wherein said light source comprises a fluorescent light transversely mounted at a bottom of said receiving chamber

of said casing for generating light which is adapted for passing through said shader slide to said picture film.

5 *not shown* 7. A multi-picture frame, as recited in claim 2, wherein said auxiliary moving picture frame further comprises a shader film supported in front of the auxiliary shader slide wherein a plurality of shading steaks having transparent abilities are longitudinally and spacedly formed on the shader film for providing a transversely moving image on the picture film when the light is passing through said shading stripes inclinedly provided on said auxiliary shader slide and said shading steaks of said shader film respectively.

10 8. A multi-picture frame, as recited in claim 7, wherein said rolling device comprises a first roller gear and a second roller gear in parallel manner rotatably and horizontally mounted in said casing respectively wherein said shader slide is rotatably connected between said first and second roller gears in an endless rotating manner, and wherein said auxiliary rolling device comprises a first auxiliary roller gear and a second
15 auxiliary roller gear in parallel manner positioned parallel to said first and second roller gears of said moving picture frame wherein said auxiliary shader slide is rotatably connected between said first and second auxiliary roller gears in an endless rotating manner, wherein said first auxiliary roller gear is rotatably engaged with said second roller gear in such a manner that said driving gear drives said second roller gear of said
20 moving picture frame and said first auxiliary roller gear to rotate at said same time.

25 9. A multi-picture frame, as recited in claim 8, wherein said electric input comprises a motor supported in said receiving chamber for driving an output axle rotate, a driving gear connected to said output axle which drives said second roller gear to rotate, and an electric cable for electrically connected to said light source and a motor respectively electrically extended to said power source.

30 10. A multi-picture frame, as recited in claim 9, wherein said picture panel further comprises a film tension adjusting unit for maintaining a tension of said picture film wherein said film tension adjusting unit comprises a pair of adjusting shafts rotatably affixed to two opposed edge portions of said picture film respectively wherein a free end of said each adjusting shaft is penetrated through said casing to outside, and a pair of operating buttons affixed to said two free ends of said adjusting shafts respectively and arranged to rotatably move said picture film through said adjusting shafts.

11. A multi-picture frame, as recited in claim 10, wherein said light source comprises a fluorescent light transversely mounted at a bottom of said receiving chamber of said casing for generating light which is adapted for passing through said shader slide to said picture film.

5 12. A multi-picture frame, comprising:

a picture panel having a front transparent surface;

a casing having a receiving chamber mounted at a back of said picture panel;

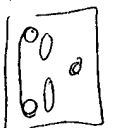
10 at least a picture film rotatably supported in said casing and adapted for being view from said front transparent surface of said picture panel wherein said picture film has a plurality of transparent areas provided thereon adapted for enabling a light passing therethrough

a light source disposed in said receiving chamber of said casing; and

15 a moving picture frame mounted between said picture panel and said light source, comprising a rolling device rotatably supported in said casing and a shader slide arranged to be rotatably driven by said rolling device in a transversely movable manner wherein a plurality of shading bands having transparent abilities are vertically and spacedly formed on said shader slide for providing a vertical moving image when a light is passing through said shader slide;

20 an auxiliary moving picture frame, supported between said picture panel and said light source, comprising an auxiliary rolling device rotatably supported in said casing and an auxiliary shader slide arranged to be rotatably driven by said auxiliary rolling device in a movable manner wherein a plurality of shading stripes having a transparent abilities are spacedly formed on said auxiliary shader slide for providing a moving image when said light is passing through said auxiliary shader slide, and

25 an electric input electrically connected said light source and said moving picture frame to a power source respectively;



thereby, said light generated by said light source is adapted for passing to said picture film through said shading bands and said shading stripes so as to reflect said moving images on said picture film.

13. A multi-picture frame, as recited in claim 12, wherein said auxiliary
5 moving picture frame further comprises a first shader film supported in front of said
auxiliary shader slide and second shader film supported in front of said shader slide, said
first shade film comprising a plurality of first shading steaks having transparent abilities
are inclinedly and spacedly formed on said shader film for providing a transversely
10 moving image on said picture film when a light is passing through said shading stripes
longitudinally on said auxiliary shader slide and said first shader film respectively, said
second shader film comprising a plurality of second shading steaks having transparent
abilities are inclinedly and spacedly formed on said second shader film for providing a
transversely moving image on said picture film when a light is passing through said
15 shader slide and said second shader film respectively, wherein said first shading steaks
and said second shading steaks are inclinedly extended in opposite directions.

14. A multi-picture frame, as recited in claim 13, wherein said rolling device
comprises a first roller gear and a second roller gear in parallel manner rotatably and
horizontally mounted in said casing respectively wherein said shader slide is rotatably
connected between said first and second roller gears in an endless rotating manner, and
20 wherein said auxiliary rolling device comprises a first auxiliary roller gear and a second
auxiliary roller gear in parallel manner positioned parallel to said first and second roller
gears of said moving picture frame wherein said auxiliary shader slide is rotatably
connected between said first and second auxiliary roller gears in an endless rotating
manner, wherein said first auxiliary roller gear is rotatably engaged with said second
25 roller gear in such a manner that said driving gear drives said second roller gear of said
moving picture frame and said first auxiliary roller gear to rotate at said same time.

15. A multi-picture frame, as recited in claim 14, wherein said electric input
comprises a motor supported in said receiving chamber for driving an output axle rotate,
a driving gear connected to said output axle which drives said second roller gear to rotate,
30 and an electric cable for electrically connected to said light source and a motor
respectively electrically extended to said power source.

16. A multi-picture frame, as recited in claim 15, wherein said picture panel further comprises a film tension adjusting unit for maintaining a tension of said picture film wherein said film tension adjusting unit comprises a pair of adjusting shafts rotatably affixed to two opposed edge portions of said picture film respectively wherein a free end
5 of said each adjusting shaft is penetrated through said casing to outside, and a pair of operating buttons affixed to said two free ends of said adjusting shafts respectively and arranged to rotatably move said picture film through said adjusting shafts.

17. A multi-picture frame, as recited in claim 12, wherein said auxiliary moving picture frame further comprises a first shader film supported in front of said
10 auxiliary shader slide and second shader film supported in front of said shader slide, said first shade film comprising a plurality of first shading steaks having transparent abilities are longitudinally and spacedly formed on said shader film for providing a transversely moving image on said picture film when a light is passing through said shading stripes inclinedly on said auxiliary shader slide and said first shader film respectively, said
15 second shader film comprising a plurality of second shading steaks having transparent abilities are inclinedly and spacedly formed on said second shader film for providing a transversely moving image on said picture film when a light is passing through said shader slide and said second shader film respectively.

18. A multi-picture frame, as recited in claim 17, wherein said rolling device
20 comprises a first roller gear and a second roller gear in parallel manner rotatably and horizontally mounted in said casing respectively wherein said shader slide is rotatably connected between said first and second roller gears in an endless rotating manner, and wherein said auxiliary rolling device comprises a first auxiliary roller gear and a second auxiliary roller gear in parallel manner positioned parallel to said first and second roller
25 gears of said moving picture frame wherein said auxiliary shader slide is rotatably connected between said first and second auxiliary roller gears in an endless rotating manner, wherein said first auxiliary roller gear is rotatably engaged with said second roller gear in such a manner that said driving gear drives said second roller gear of said moving picture frame and said first auxiliary roller gear to rotate at said same time.

19. A multi-picture frame, as recited in claim 18, wherein said electric input
30 comprises a motor supported in said receiving chamber for driving an output axle rotate, a driving gear connected to said output axle which drives said second roller gear to rotate,

and an electric cable for electrically connected to said light source and a motor respectively electrically extended to said power source.

20. A multi-picture frame, as recited in claim 19, wherein said picture panel further comprises a film tension adjusting unit for maintaining a tension of said picture
5 film wherein said film tension adjusting unit comprises a pair of adjusting shafts rotatably affixed to two opposed edge portions of said picture film respectively wherein a free end of said each adjusting shaft is penetrated through said casing to outside, and a pair of operating buttons affixed to said two free ends of said adjusting shafts respectively and arranged to rotatably move said picture film through said adjusting shafts.